

Fig. 1

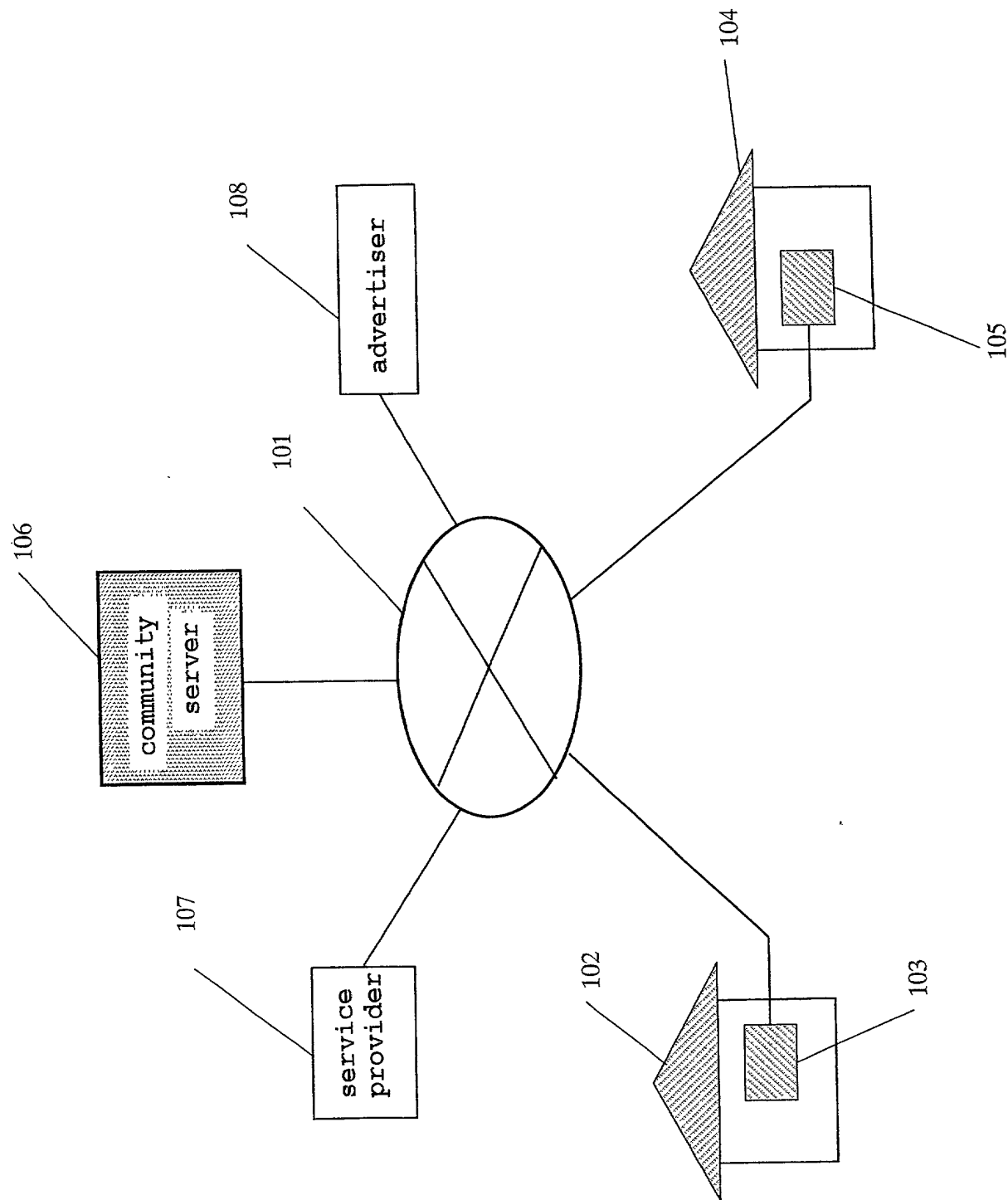


Fig. 2

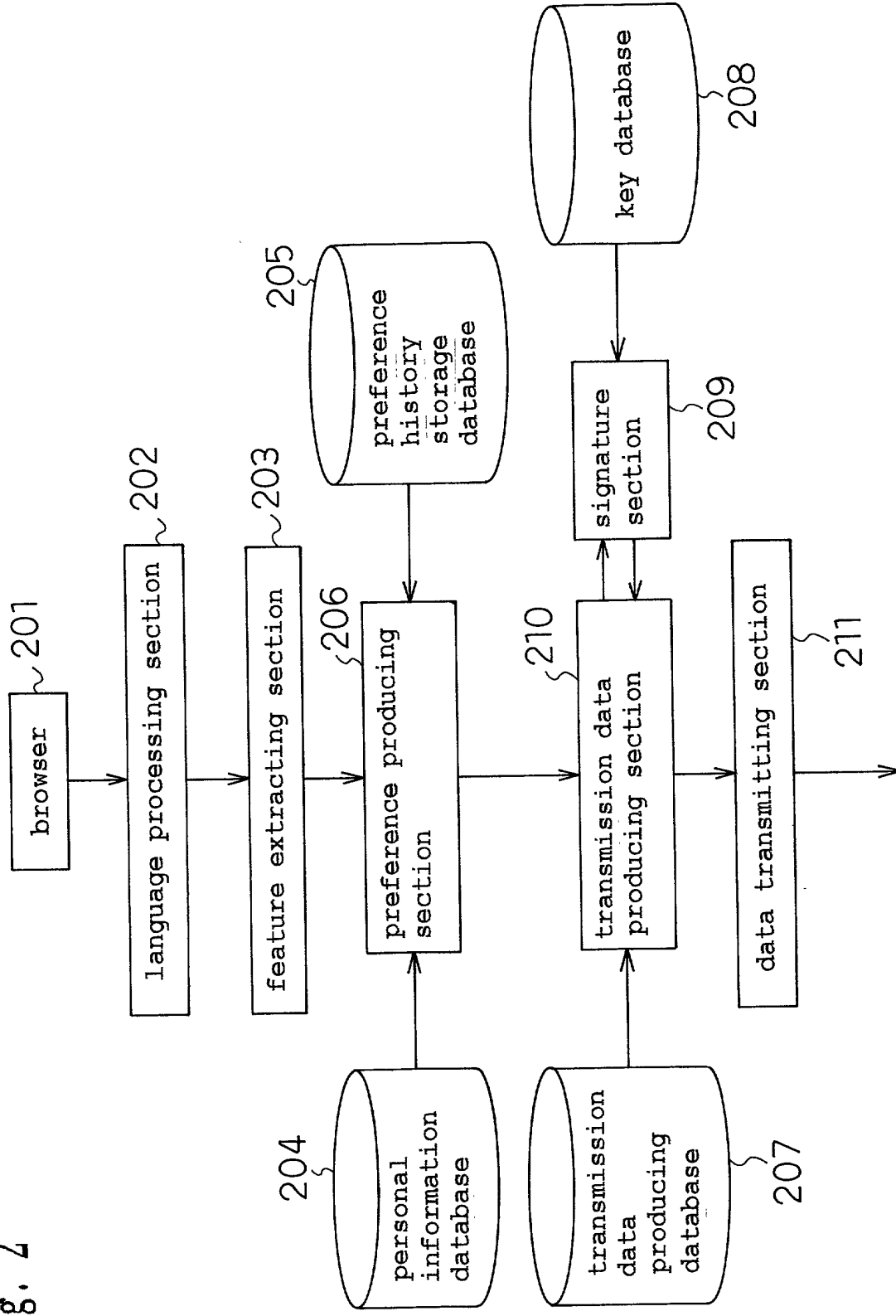


Fig. 3

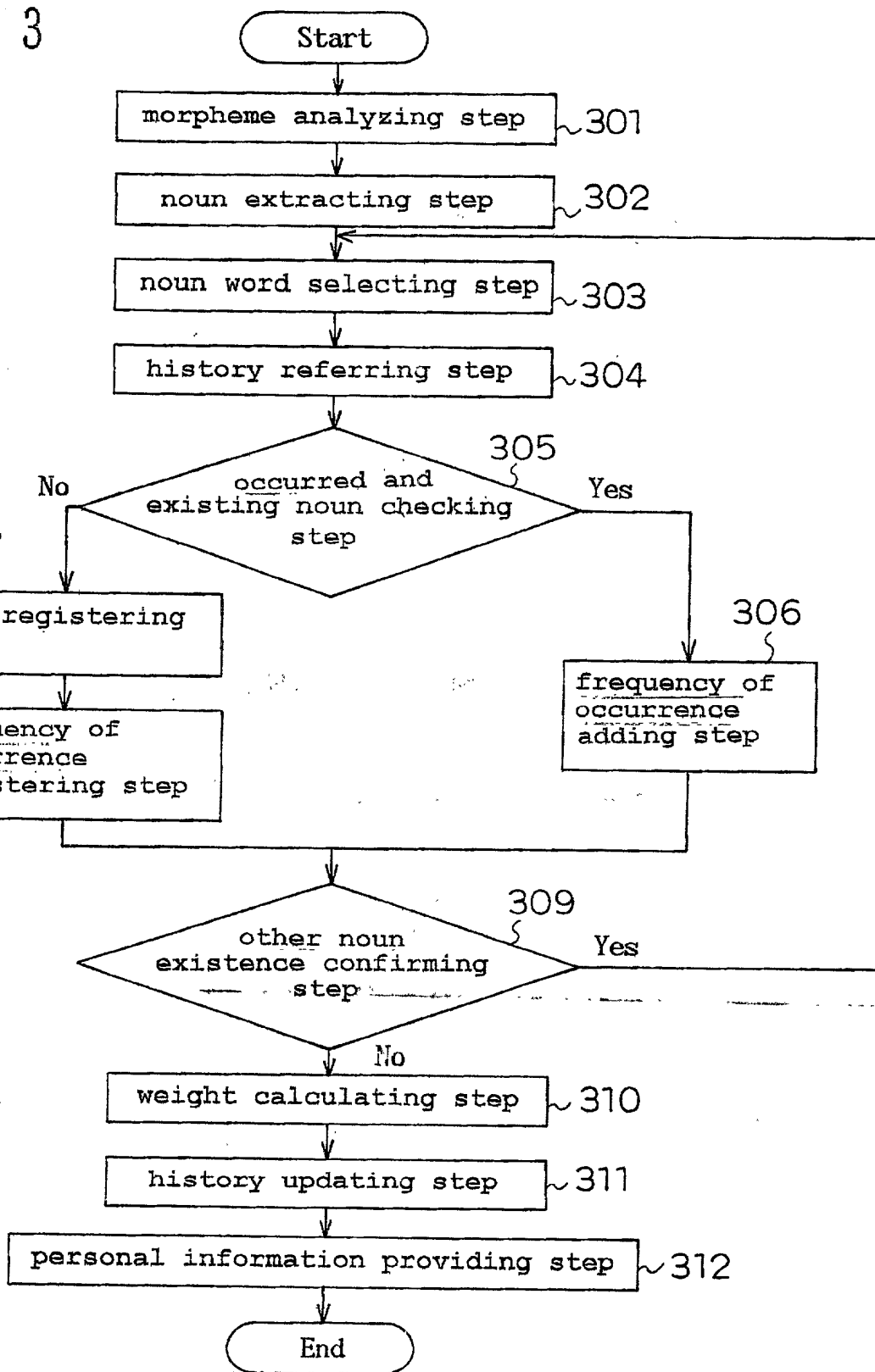


Fig. 4

Professional baseball

401

Professional baseball wa Japan series shuryo o ukete,  
iseki no jiyu o mitomeru free agent (FA) shikaku shutoku  
senshu no kenri koshi ga 30 nichi ni kaikinsareru.

Fig. 5

501

Term	Part of speech
professional baseball	common noun
wa	adverbial particle
Japan	proper noun
series	common noun
shuryo	S-series irregular conjugation noun
o	case particle
ukete	verb
iseki	S-series irregular conjugation noun
no	noun connective particle
jiyu	adjective
o	case particle
mitomeru	verb
free agent	common noun

Fig. 6

601

Noun	Frequency of occurrence
professional baseball	1
Japan	1
series	1
free agent	1

Fig. 7

701

Attribute	Attribute value (weight)	Frequency of occurrence
Tigers	0.21	20
Soccer	0.11	10
Professional baseball	0.11	10
Japan	0.26	25
Olympics	0.05	5
Guitar	0.16	15
Internet	0.21	20
Total number of occurrences		95

Table 1

Fig. 8

801

Attribute	Attribute value (weight)	Frequency of occurrence
Tigers	0.20	20
Soccer	0.10	10
Professional baseball	0.10	11
Japan	0.26	26
Olympics	0.05	5
Guitar	0.15	15
Internet	0.20	20
series	0.01	1
free agent	0.01	1
Total number of occurrences		99



Fig. 9

901

Attribute	Attribute value
Sex	Male
Age	24 years
Hobby	Baseball

Fig. 10

1001

Attribute	Attribute value
Sex	Male
Age	24
Hobby	Baseball
Tigers	0.20
Soccer	0.10
Professional baseball	0.10
Japan	0.26
Olympics	0.05
Guitar	0.15
Internet	0.20
series	0.01
free agent	0.01

Fig. 11

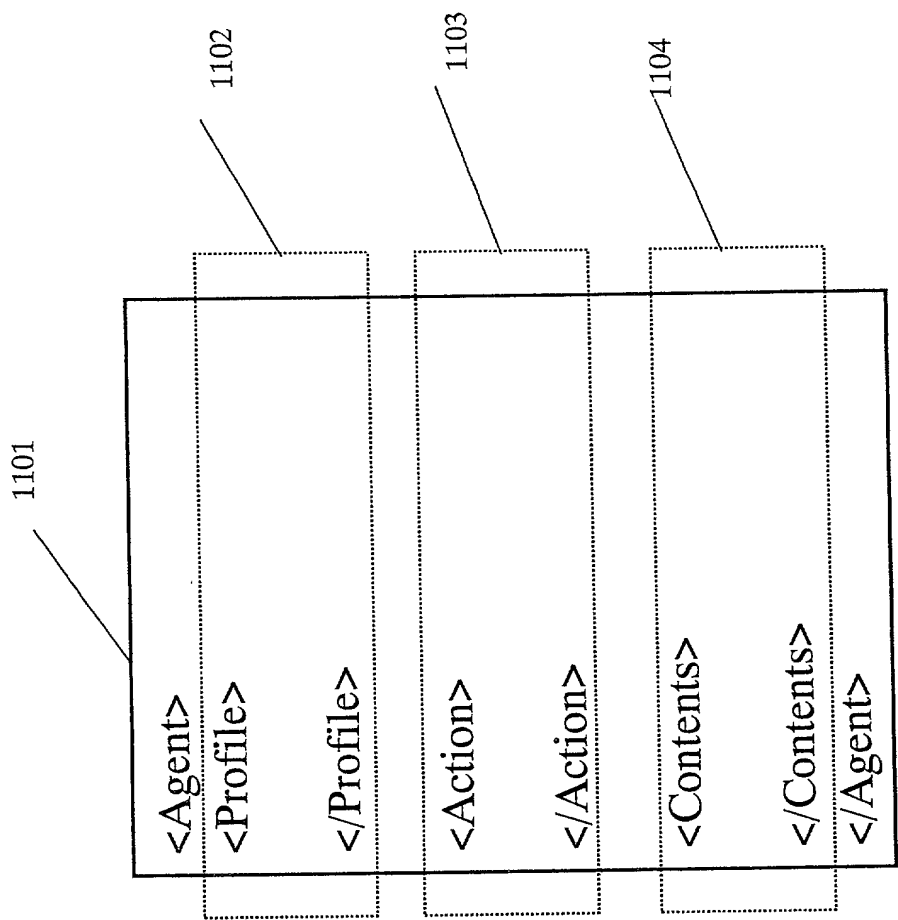


Fig. 12

Profile

1201

Item	Value
Destination IP address	128.188.24.22
Source IP address	142.164.98.1
Name	Kato
Password	*****
Signature	

Action

1202

Action	Method
Extraction of preference information	extractFavorInfo()
Extraction of personal information	extractUserData()

Fig. 13

1301

```

<Agent>
<Profile>
  <param attr="ToIP" value="128.188.24.22">
  <param attr="FromIP" value="142.164.98.1">
  <param attr="Name" value="Kato">
  <param attr="Signature" value="">
</Profile>
<Action>
  <param attr="FavorInfo" value="extractFavorInfo()">
  <param attr="UserData" value="extractUserData()">
</Action>
<Contents>
  <param attr="sex" value="male">
  <param attr="age" value="24">
  <param attr="hobby" value="baseball">
  <param attr="hansin" value="0.20">
  <param attr="soccer" value="0.10">
  <param attr="proyakyu" value="0.10">
  <param attr="nihon" value="0.26">
  .
  .
  .
  <param attr="free-agent" value="0.01">
</Contents>
</Agent>

```

Fig. 14

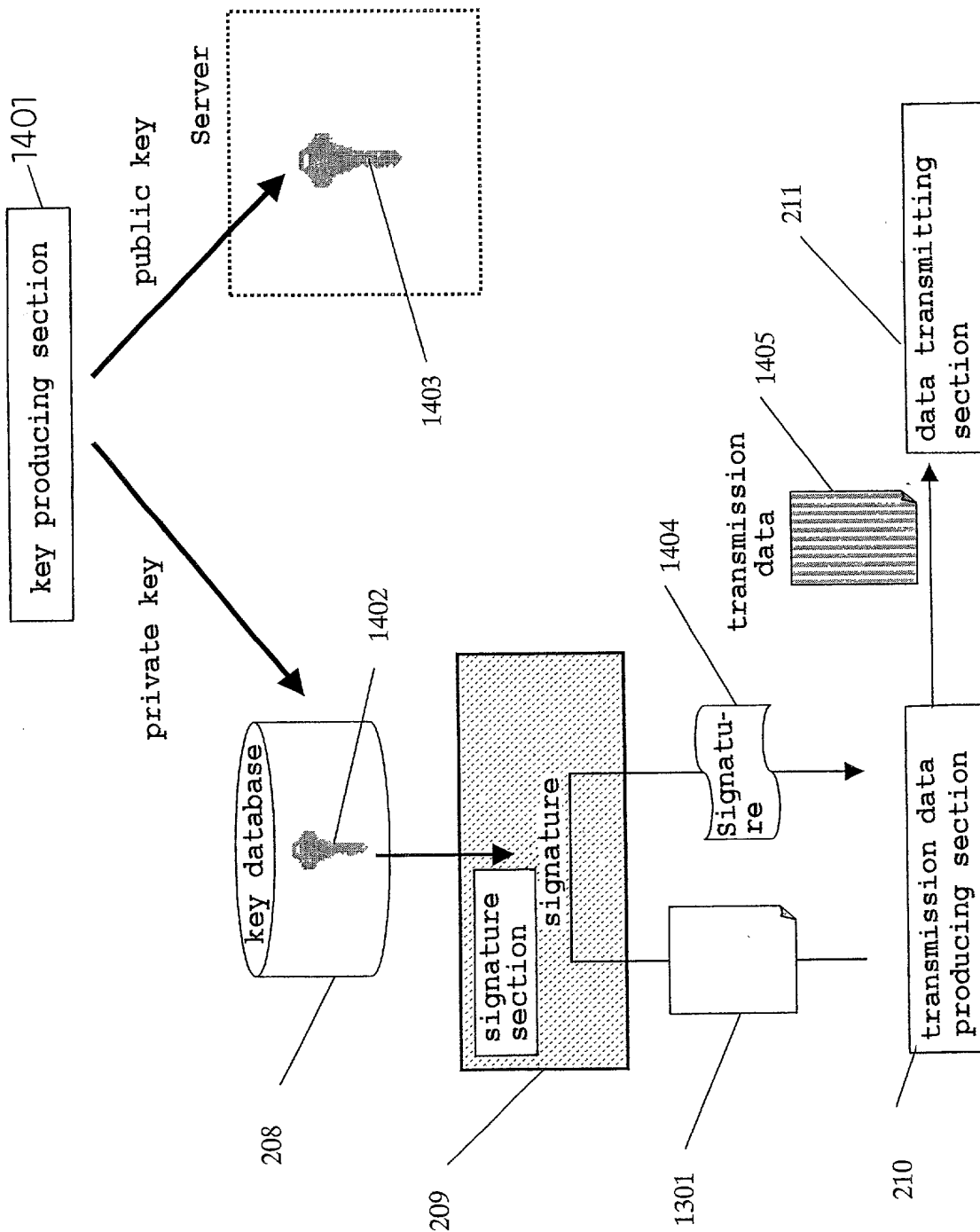


Fig. 15

1405

```

<Agent>
<Profile>
  <param attr="ToIP" value="128.188.24.22">
  <param attr="FromIP" value="142.164.98.1">
  <param attr="Name" value="Kato">
  <param attr="Signature" value="72f3b2cf59448c1a9232bc7f">
</Profile>
<Action>
  <param attr="FavorInfo" value="extractFavorInfo()">
  <param attr="UserData" value="extractUserData()">
</Action>
<Contents>
  <param attr="sex" value="male">
  <param attr="age" value="24">
  <param attr="hobby" value="baseball">
  <param attr="hansin" value="0.20">
  <param attr="soccer" value="0.10">
  <param attr="proyakyu" value="0.10">
  <param attr="nihon" value="0.26">
  .
  .
  .
  <param attr="free-agent" value="0.01">
</Contents>
</Agent>

```

Fig. 16

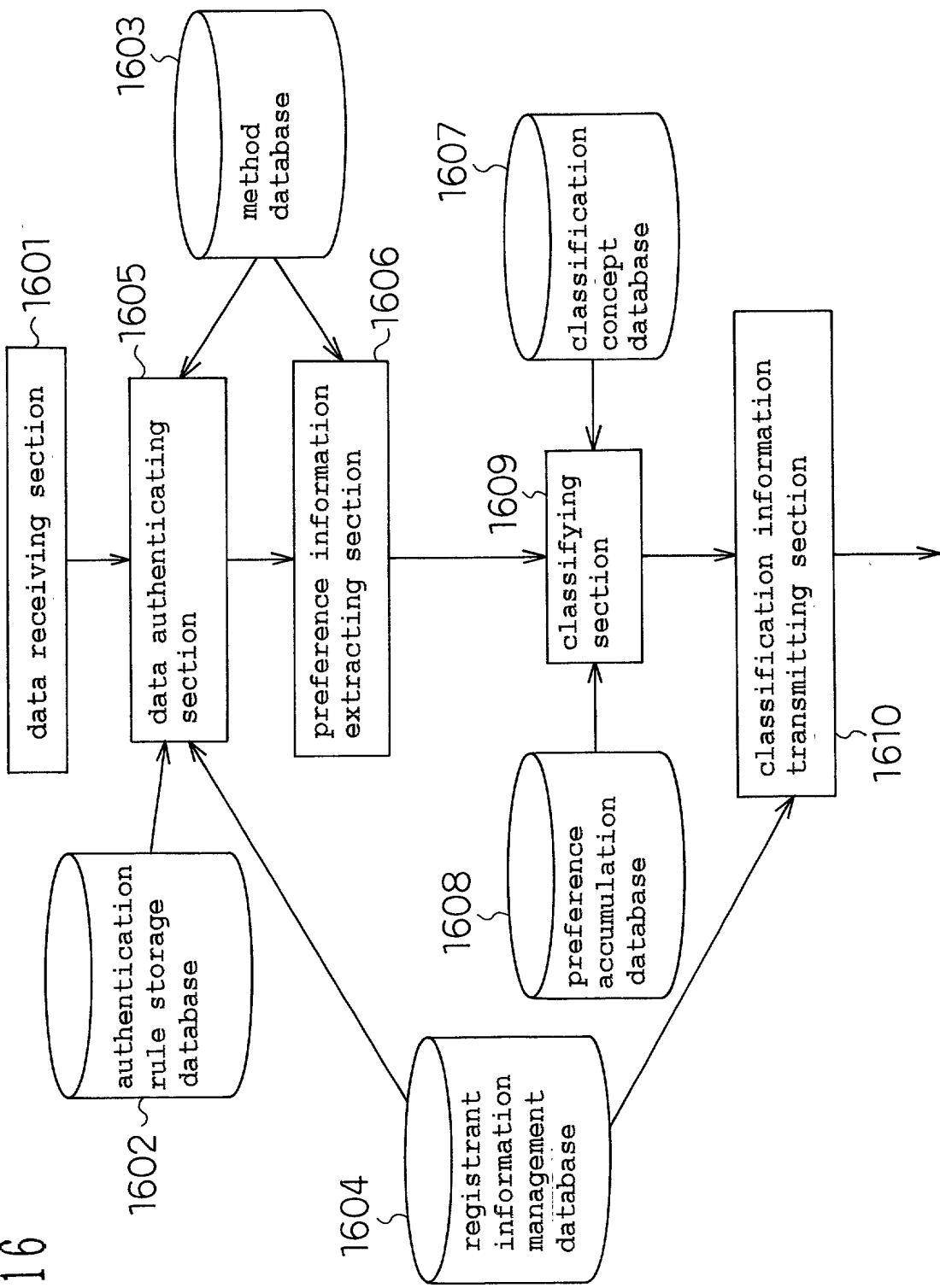




Fig. 17

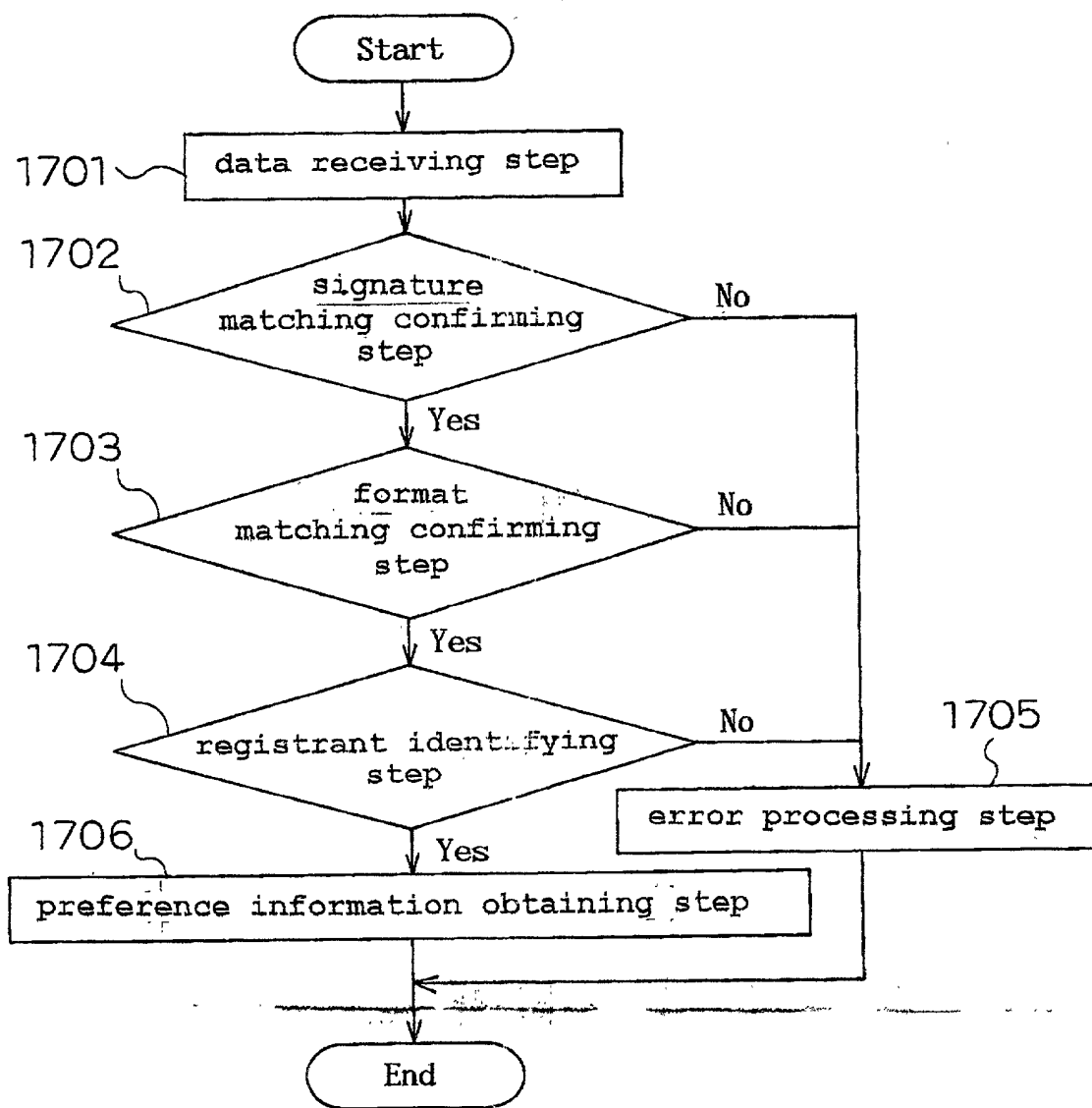


Fig. 18

Action	Method
signature authentication	certifySignature() 1801
format authentication	certifyFormat() 1802
user information authentication	certifyUserData() 1803
preference information extraction	extractFavorInfo() 1804

Fig. 19

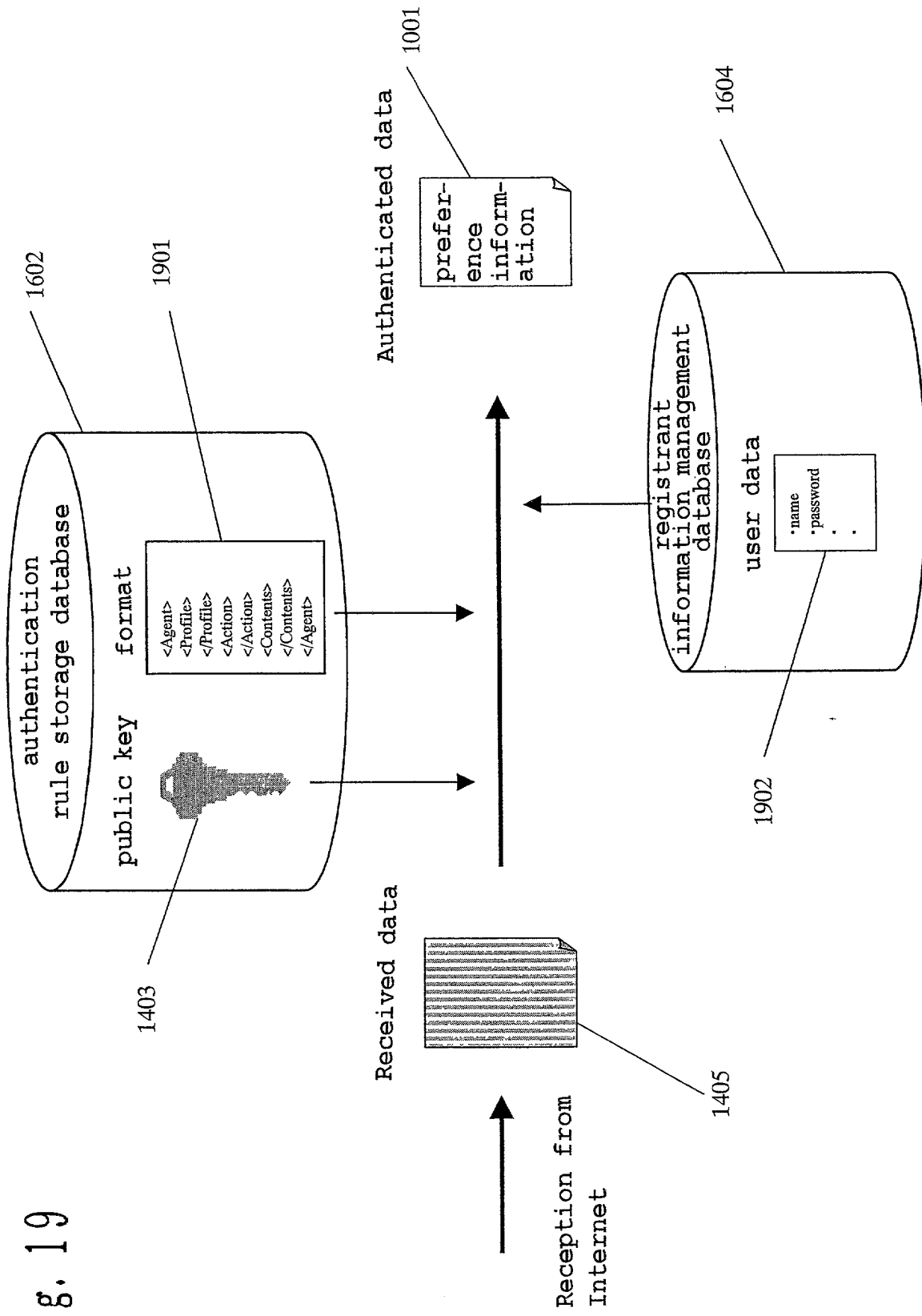


Fig. 20

1902

UserID	Name	Password	Mail Address
1	Kato	*****	k.kato@****
2	Nakano	*****	nakapin@*****
3	Ueda	*****	m_ueda@*****
.	.	.	
.	.	.	
.	.	.	

Fig. 21

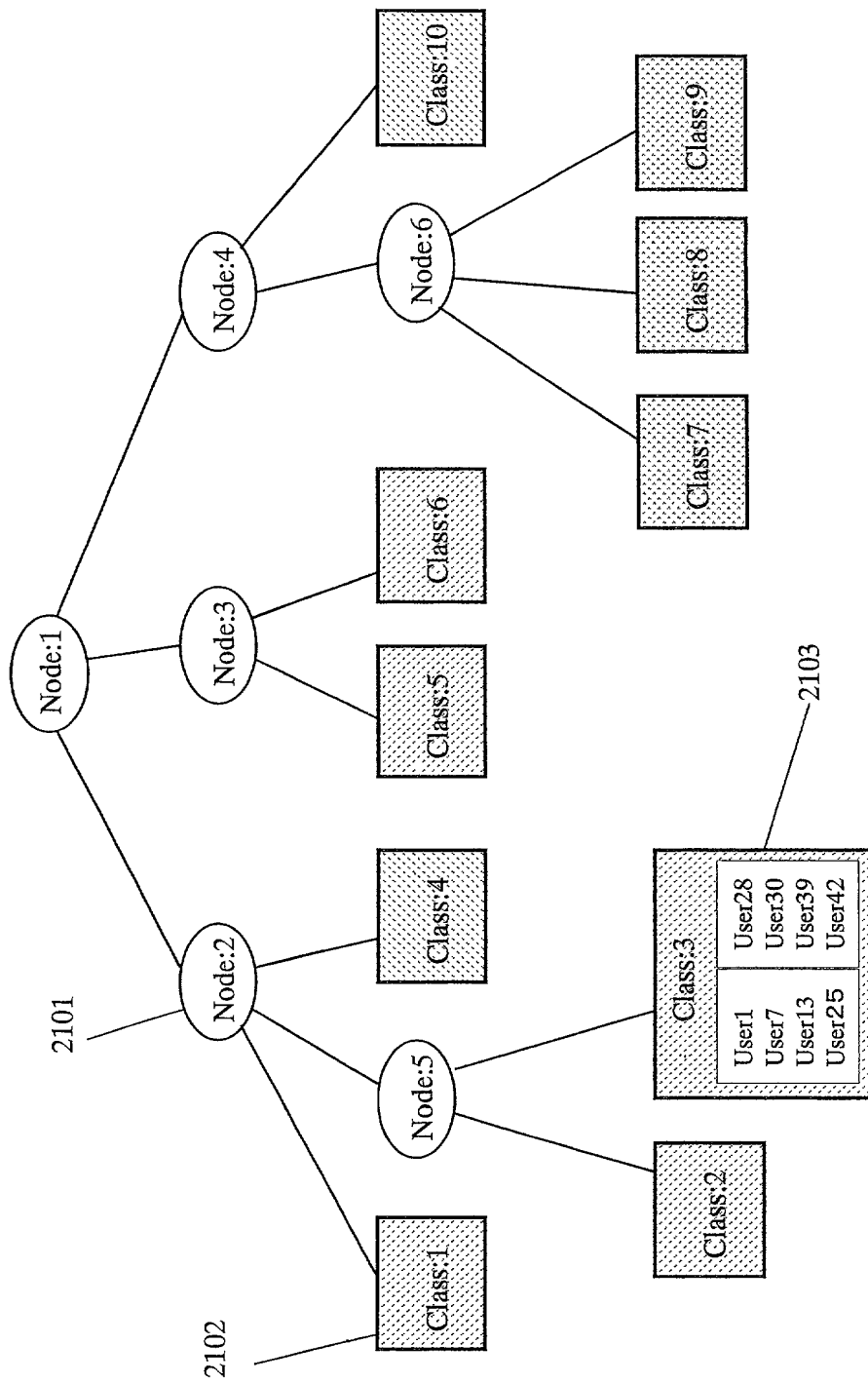


Fig. 22A

2201

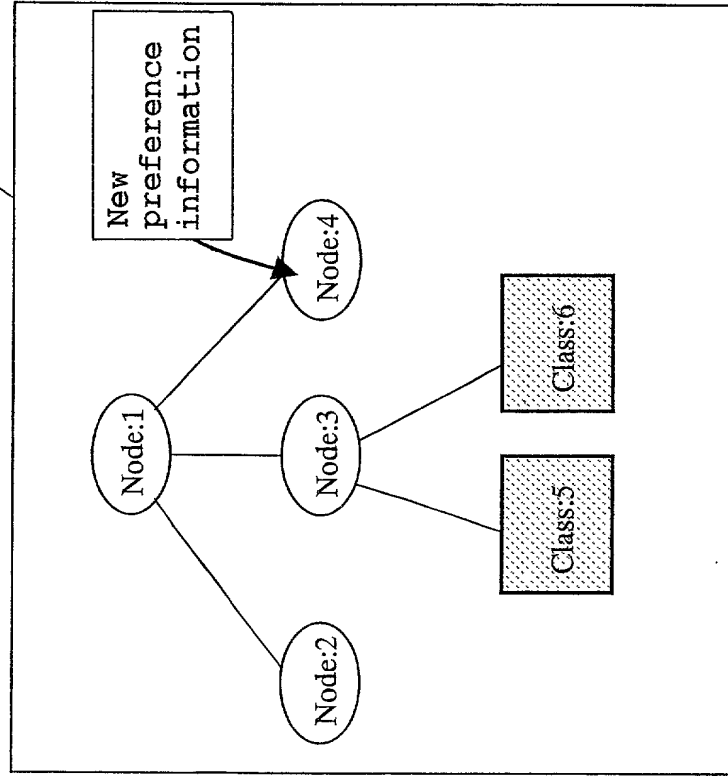


Fig. 22B

2202

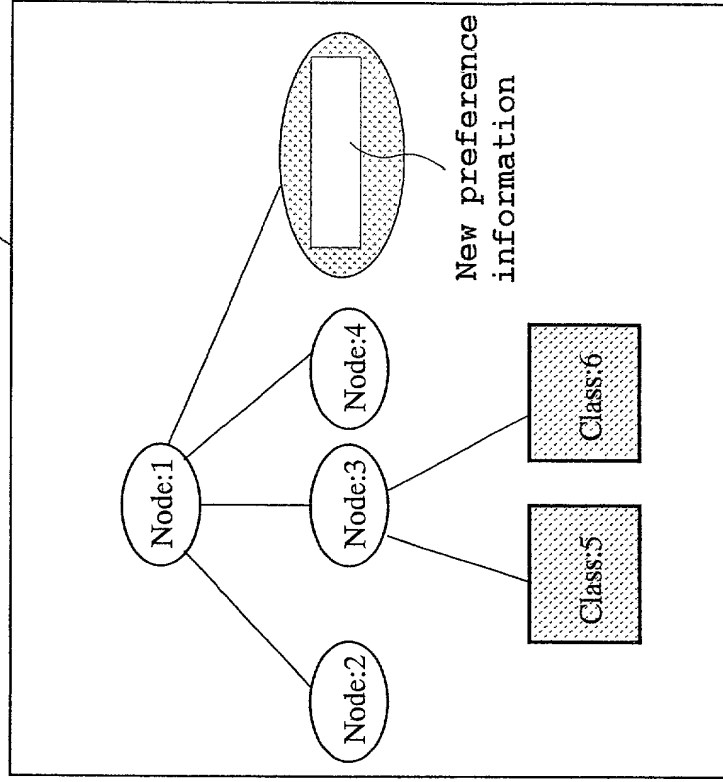


Fig. 23A

2301

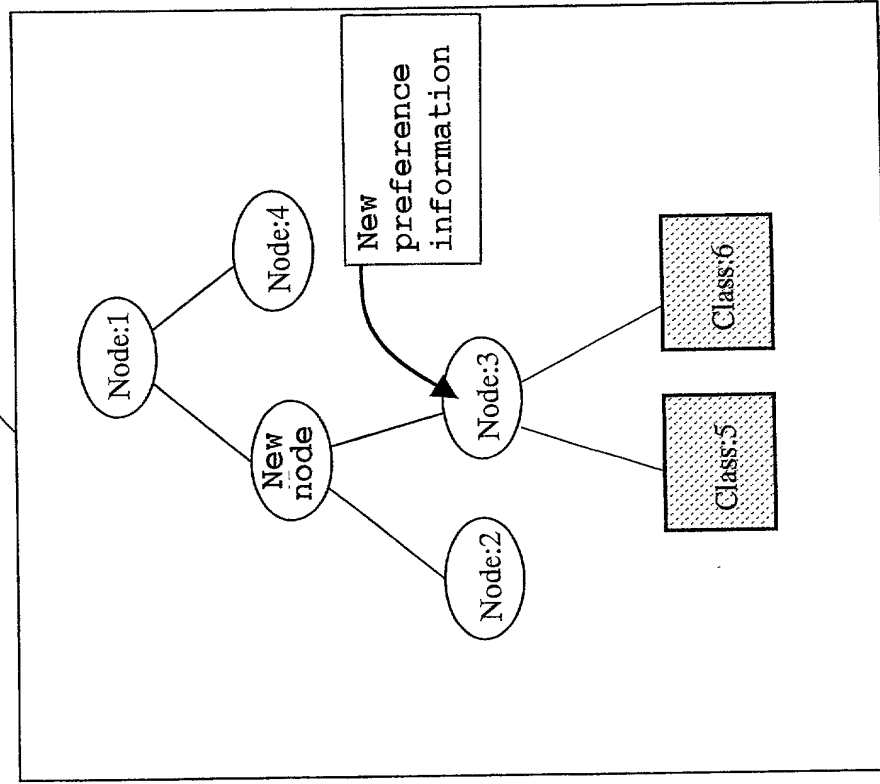


Fig. 23B 2302

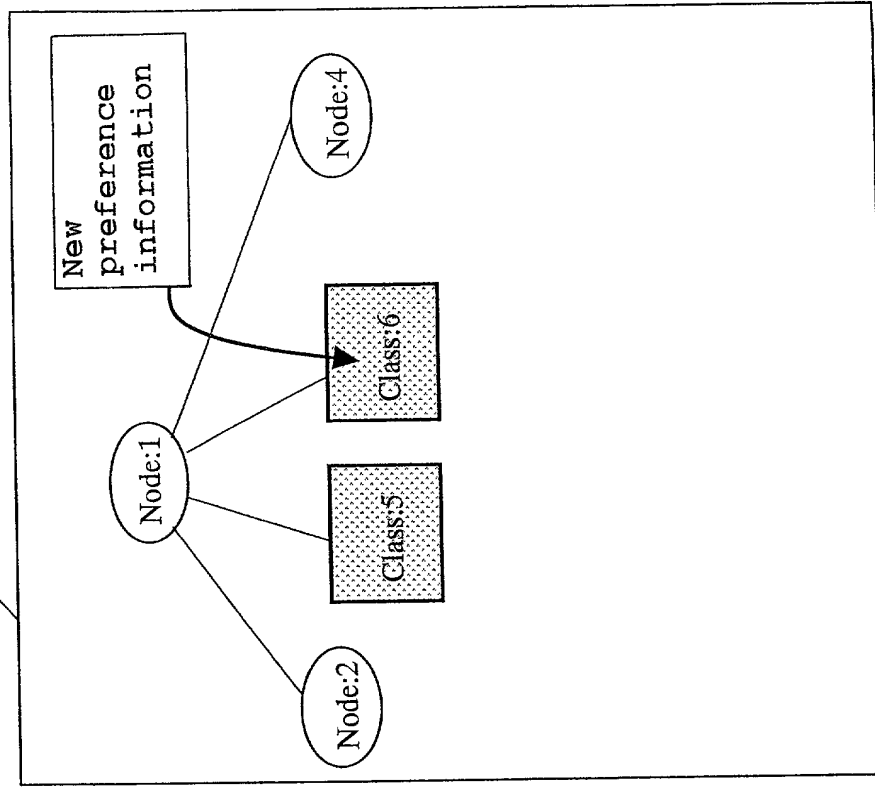


Fig. 24

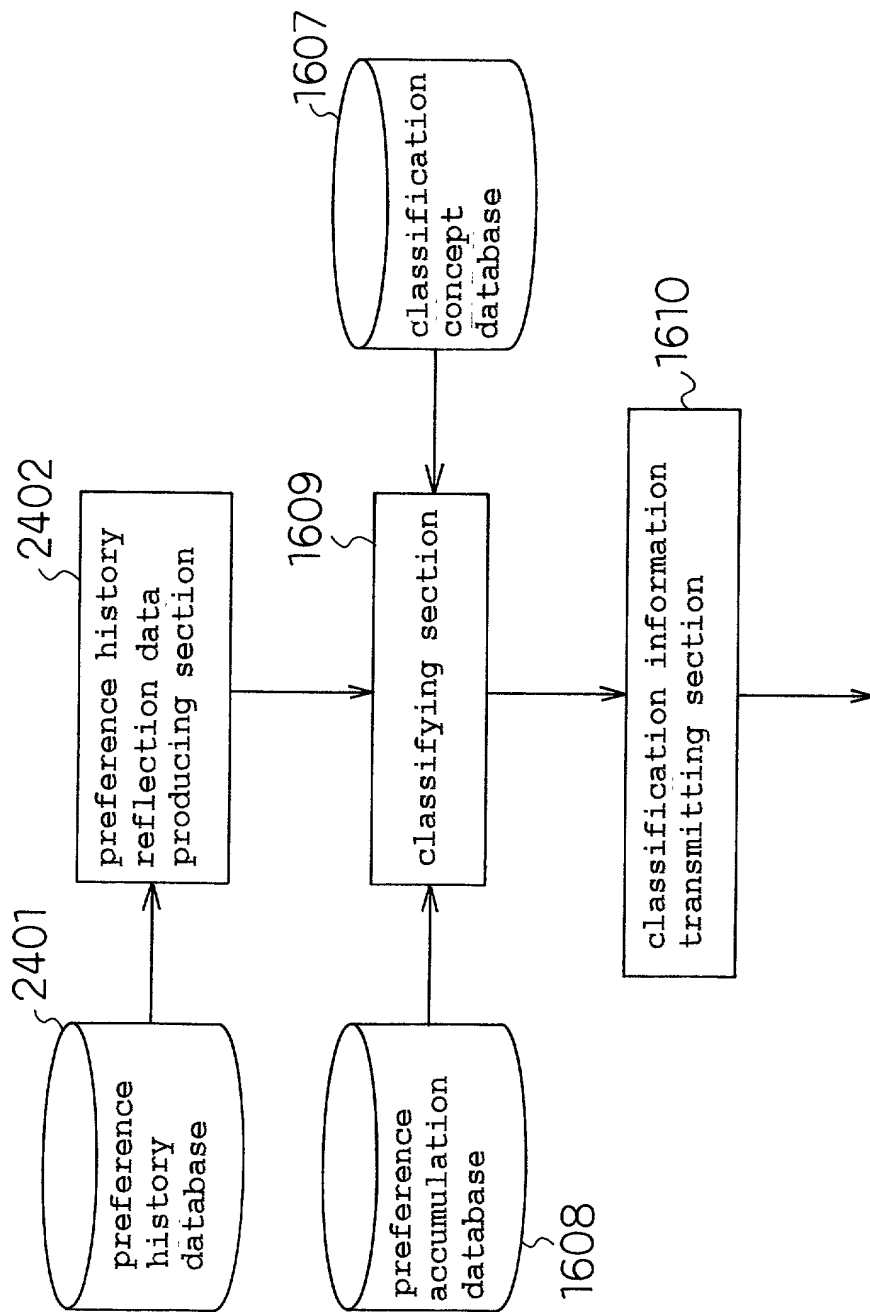




Fig. 25

Attribute	Attribute value
Sex	Male
Age	24
Hobby	Baseball
	Change value
Tigers	-0.15
Soccer	+0.1
Professional baseball	0
Japan	+0.05
Olympics	+0.1
Guitar	-0.1
Internet	0
series	0
free agent	0

2501

Fig. 26

Attribute	Attribute value
Sex	Male
Age	24
Hobby	Baseball
Tigers	0
Soccer	0.2
Professional baseball	0.1
Japan	0.15
Olympics	0.2
Guitar	0
Internet	0.1
series	0.1
free agent	0.1

2601

Fig. 27

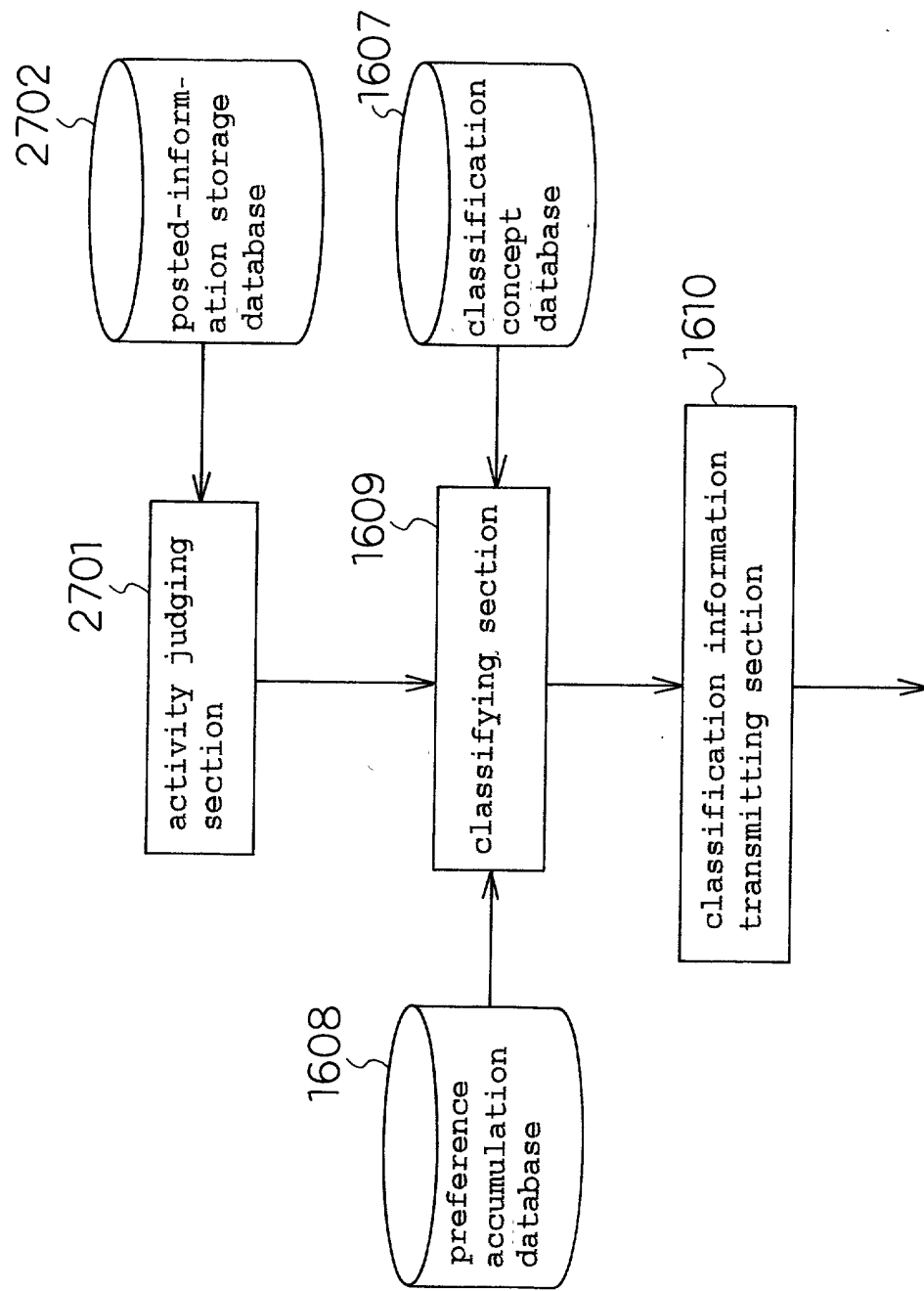


Fig. 28

2801

1	The number of postings per day is smaller than 10.
2	The number of users who frequently post is smaller than 5.
3	
4	

Fig. 29

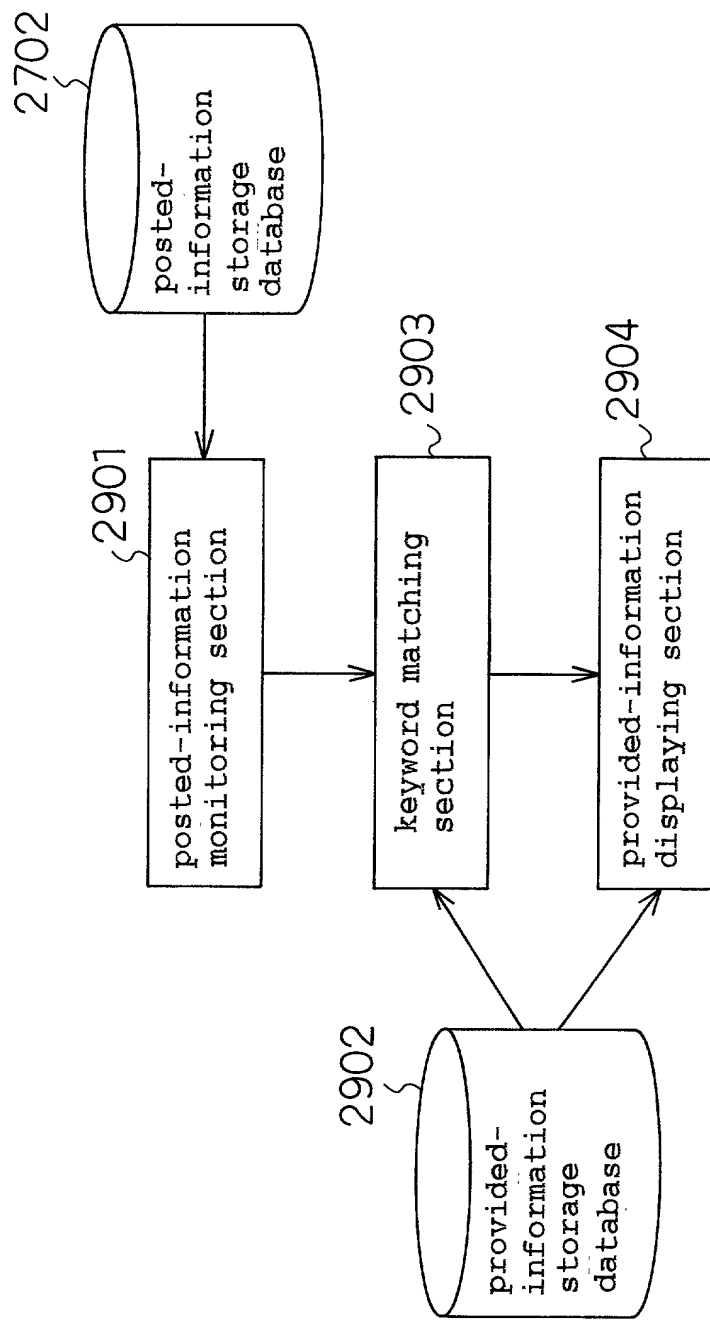


Fig. 30

3001

A JPEG image was not finely taken.  
The digital camera seems to be wrong.

Fig. 31

3101

Keyword	Reference URL
Diaper	<a href="http://www.omutu.com">http://www.omutu.com</a>
Digital camera	<a href="http://www.marumarudenki.co.jp/digi-came">http://www.marumarudenki.co.jp/digi-came</a>
Ticket	<a href="http://www2.ticket-gct.co.jp">http://www2.ticket-gct.co.jp</a>

Fig. 32

3201

Keyword	explanation
JPEG	One of image compression systems. Established mainly for landscape pictures
ISDN	International standard for digital communication. Information of large data amount can be transmitted and received at a high speed.



Fig. 33

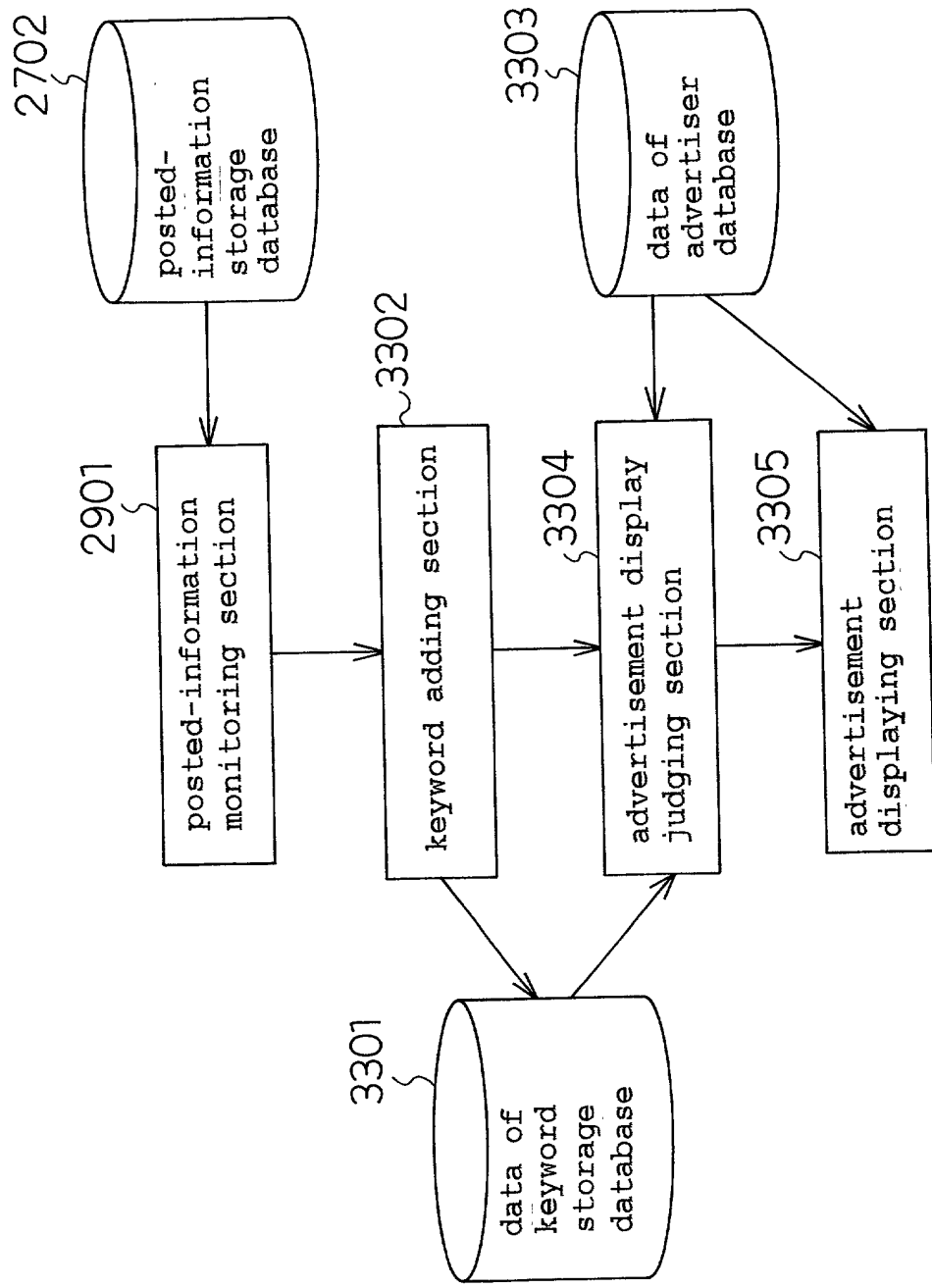


Fig. 34

3401

Keyword	Number of postings
Digital camera	14
Internet	6
JPEG	8
Childcare	4
Television	12

3402

Keyword	Number of postings
Digital camera	15
Internet	6
JPEG	9
Childcare	4
Television	12
Image	1

Fig. 35

3501

Name of enterprise	Keyword 1	Keyword 2	Advertisement information
A company	JPEG : 5	Digital : 10 camera	<a href="www.A-sha.co.jp"> Best time to buy </a>
B company	Television : 10	Newspaper : 10	<a href="www.B-sha.com"> Please look in. </a>

Fig. 36

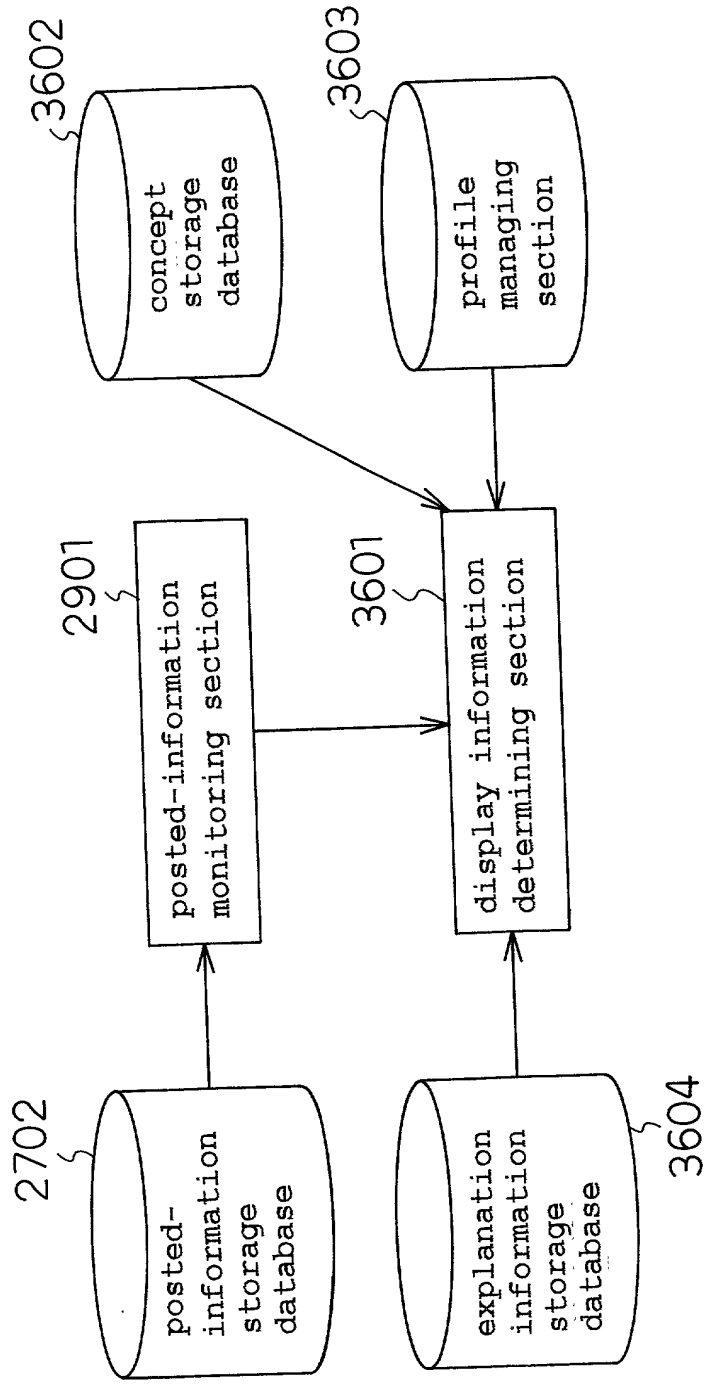


Fig. 37

I watched a game of the Japanese national soccer team yesterday.

I took a picture of a goal scene by a digital camera, but unfortunately the picture is very poor.

Fig. 38

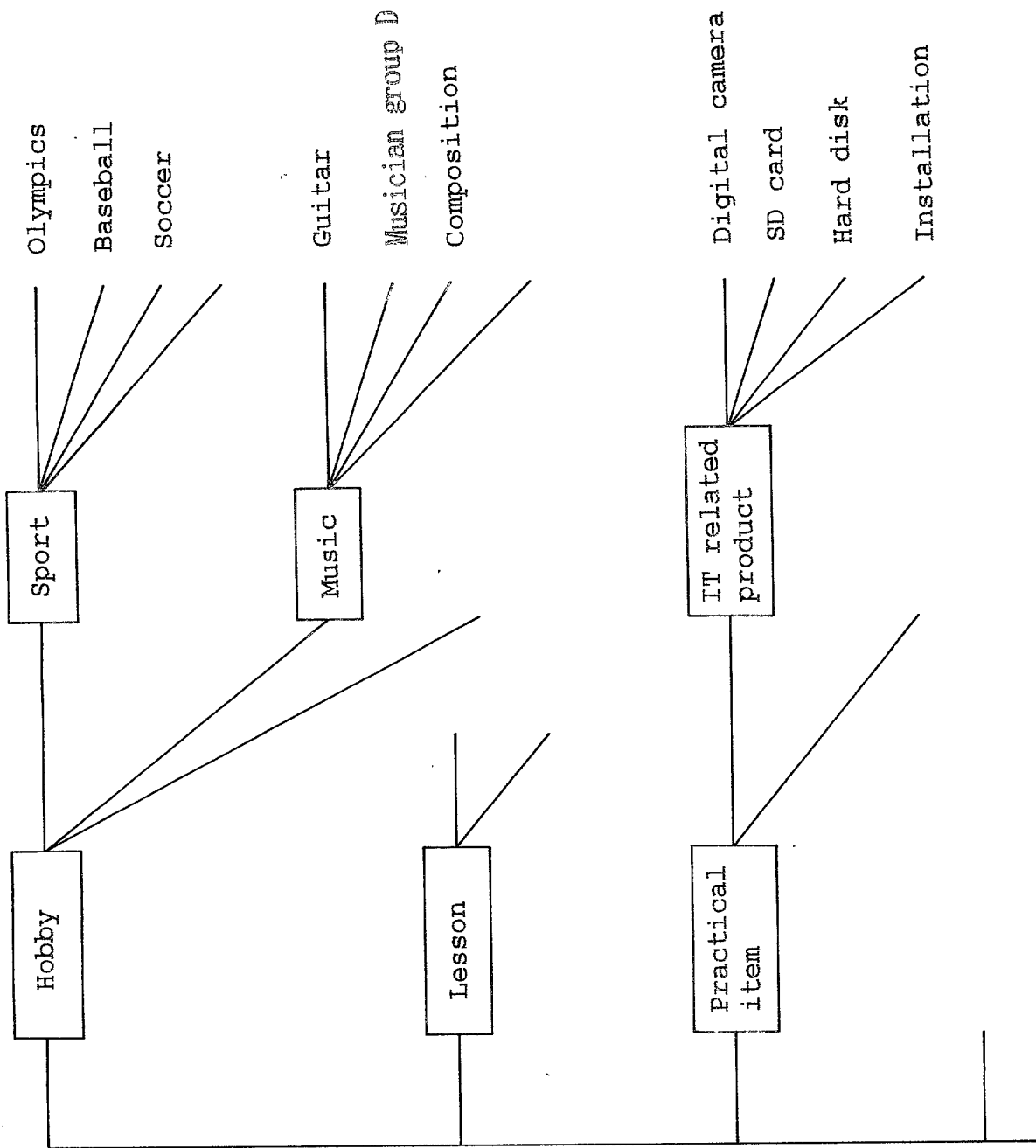
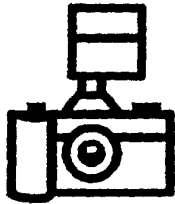


Fig. 39A

Please teach me a digital camera!!



A digital camera (digi-came) is a device for directly digitizing an object field. A digitized data can be introduced into a personal computer to be edited, or printed in the same manner as a silver camera.

3901

Fig. 39B

Sports fans, join us!

Bulletin board

Login name

Enter

※ Last 8 lines of this room ※

Bob -> I watched a game of the Japanese national soccer team yesterday.  
I took a picture of a goal scene by a digital camera, but unfortunately  
the picture is very poor.

Yukio -> Although J. League is fine, I am most excited by a game of the Japanese  
national team. I will be enthusiastic.

Bob -> Many soccer teams are still in contention.

Sakae -> It has occurred very early this year.

Bob -> In the Central League, the pennant race will be settled soon.

Today's word

Tea break

Community.com



Fig. 40

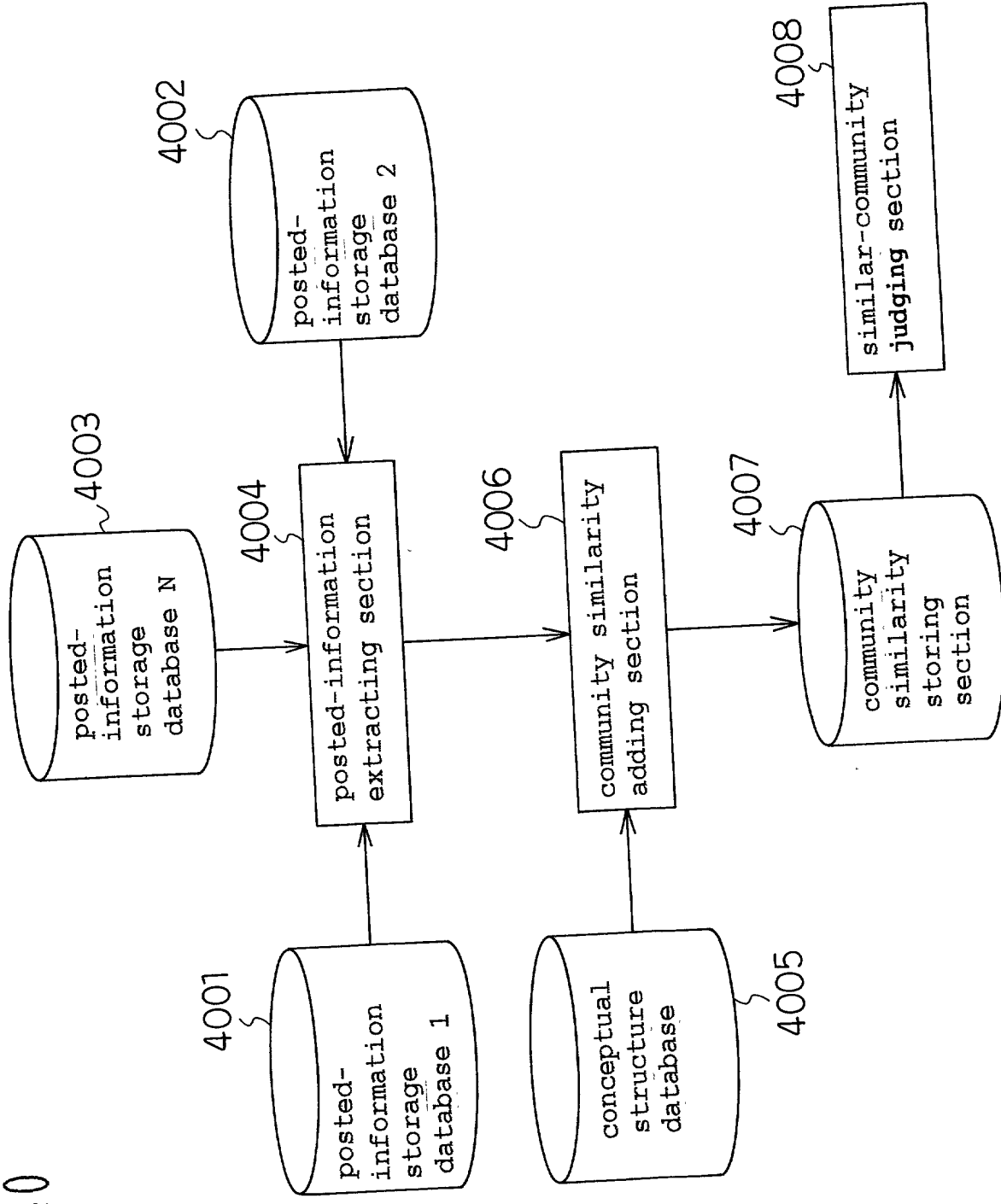


Fig. 41

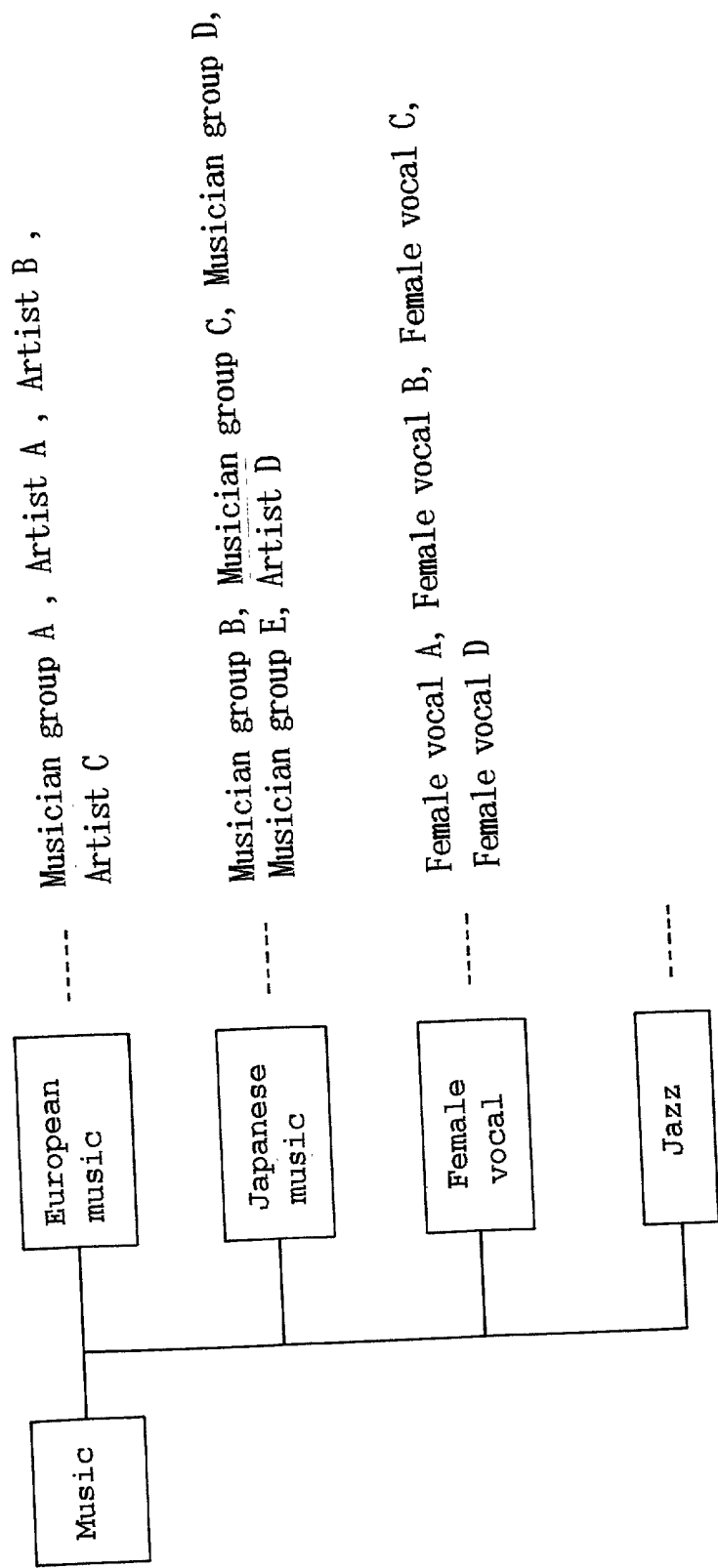


Fig. 42

	Object community			
	Japanese music community	Female vocal community	-----	Community N
Japanese music community		18		3
Female vocal community	12			6
' ' '				
Community N	2	3		

Fig. 43

Sam	-> Recently, it is well sold.
Midori	-> I like also the voice of Female vocal B.
Jiro	-> Yes, the voice is clear.
Sam	-> I think that Female vocal A of Musician group E has a sweet voice.
Jiro	-> Yes, I like Musician group E.
Sam	-> Recently, new bands also become popular.
Midori	-> Also the new piece of music is nice.
Sam	-> I bought the new piece of Musician group A at once.



Fig. 45

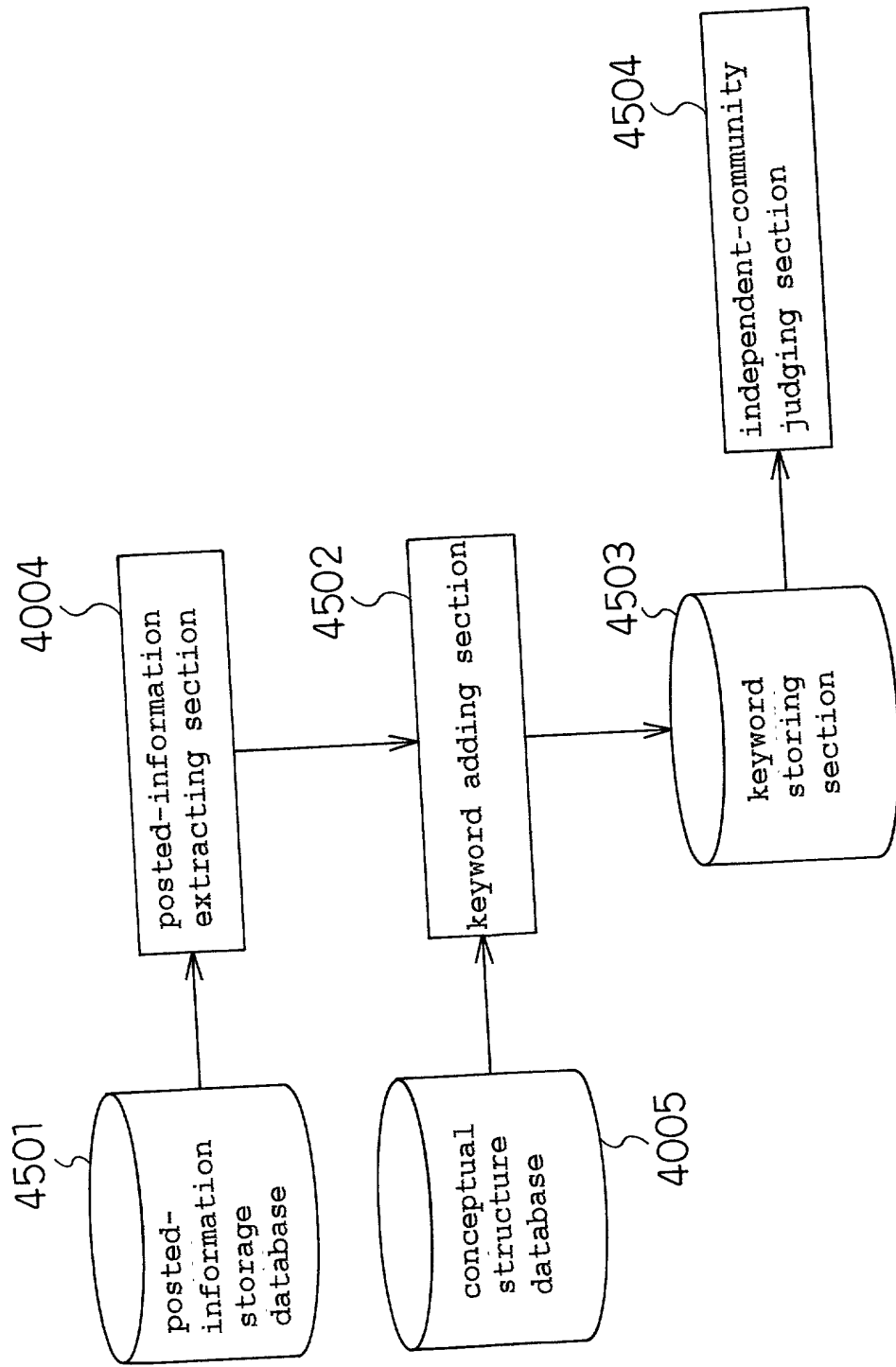


Fig. 46

	Kind of lower-level category			
	European music	Japanese music	Female vocal	Jazz
Sam	8	26	32	3
Midori	12	24	7	2
Jiro	4	5	2	16
Kenta	2	0	0	1
Maki	18	35	32	0
.	.	.	.	.
.	.	.	.	.
.	.	.	.	.
June	41	19	10	6
Members of music community				

Fig. 47

Midori	-> I like Artist B. But, it is difficult to sing a song of the artist.
June	-> I remember Artist D.
Sam	-> I like Musician group A.
Maki	-> What kind of song do you sing?
Midori	-> I will go to karaoke after a long interval.



Fig. 48

	Kind of lower-level category			
	European music	Japanese music	Female vocal	Jazz
Sam	8	27	32	3
Midori	13	24	7	2
Jiro	4	5	2	16
Kenta	2	0	0	1
Maki	18	35	32	0
.	.	.	.	.
.	.	.	.	.
.	.	.	.	.
June	41	20	10	6
Members of music community				

Fig. 49

